

DEMINA, N.A.; DUKHANINA, N.N.; LEYKINA, Ye.S.; MOSHKOVSKIY, Sh.D.;
PAVLOVA, Ye.A.; PROKOPENKO, L.I.; RASHINA, M.G.; SCHENSHOVICH,
V.B.; YAKUSHEVA, A.I.; MILENUSHKIN, Yu.I., red.; LEVINA, T.I.,
tekhn.red.

[Epidemiology and medical parasitology for entomologists] Epide-
miologiya i meditsinskaya parazitologiya dlya entomologov. Pod
red. Sh.D.Moshkovskogo i M.G.Rashinoy. Sost.N.A.Demina i dr.
Moskva, Gos.izd-vo med.lit-ry Medgiz, 1951. 454 p.

(EPIDEMIOLOGY)

(MEDICAL PARASITOLOGY)

(MIRA 14:2)

YAKUSHEVA, A.S.; BRAZNIKOVA, L.V.

Chemical composition of atmospheric precipitation in the upper reaches of the Sa River. Gidrokhim. mat. 37:23-29 '64. (MIRA 18:4)

1. Gidrokhimicheskiy institut Glavnogo upravleniya gidrometeorologicheskoy sluzhby pri Sovete Ministrov SSSR, Novocherkassk.

ALEKIN, O.A.; BRAZHNIKOVA, L.V.; YAKUSHEVA, A.S.

Studying ionic runoff of arid basins based on the example of the
Sal River. Gidrokhim. mat 37:30-41 '64. (MIRA 13:4)

1. Gidrokhimicheskiy institut Glavnogo upravleniya gidrometeoro-
logicheskoy sluzhby pri Sovete Ministrov SSSR, Novochoerkassk.

YAKUSHEVA, I.A.

Metabolism of phosphorus compounds in infectious hepatitis,
chronic hepatitis, and cirrhosis of the liver. Trudy Sar.
gos. med. inst. 26:153-157 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, kafedra fakul'tetskoy
terapii (zav. - prof. L.A. Varshamov) i kafedra biologicheskoy
khimii (zav. prof. N.N. Ivanovskiy).
(LIVER—DISEASES) (PHOSPHORUS METABOLISM)

YAKUSHEVA, I.A.

Determination of creatine phosphate in the blood. Trudy Sar. gos.
med. inst. 26:158-159 '59. (MIRA 14:2)

1. Saratovskiy meditsinskiy institut, Fakul'tetskaya terapi-
cheskaya klinika (zav. - prof. L.A. Varshamov) i kafedra biologiche-
skoy khimii (zav. - prof. N.N. Ivanovskiy).
(CREATINEPHOSPHORIC ACID)

YAKUSHEVA, I. A., Cand Biol Sci -- (diss) "Metabolism of phosphorus compounds in Botkin's disease, chronic hepatitis, and cirrhosis of the liver." Saratov, 1960. 13 pp; (Ministry of Public Health USSR, State Scientific Research Inst of Microbiology and Epidemiology of South-Eastern USSR ("Mikrob")); 275 copies; price not given; (KL, 52-60, 119)

YAKUSHEVA, I.V.

Effect of nicotinic acid on plethysmographic curve. Klin. ned., Moskva
30 no.8:78-81 Aug 1952. (CLML 23:2)

1. Candidate Medical Sciences. 2. Of the First Department of Therapy
(Head -- Honored Worker in Science Prof. Ya. L. Lovtskiy), Leningrad
Order of Lenin Institute for the Advanced Training of Physicians.

1. YAKUSHEVA, K. K.
2. USSR (600)
4. Vegetable Gardening
7. High yields of vegetables on the "Bolshevik" State Farm. Sad i og., No. 1, 1953.
9. Monthly List of Russian Accessions, Library of Congress, May 1953, Uncl.

KONOVALOV, S.A.; YAKUSHEVA, M.I.

Changes in the nucleic acid content of yeasts during the various
stages of their growth. Trudy TSNIISP no. 13:10-14 '62.

(MIRA 17:5)

KORSUN', A.A.; YAKUSHEVA, N.B.; YATSIKOV, Ya.S.; FEDOROV, Y. .P.,
otv. red.

[Results of observations with zenith telescopes in 1960-
1963: Pulkovo, Gorkiy, Kitab, Poltava, Kazan, Irkutsk,
Blagoveshchensk] Rezul'taty nabludeni na zenit-teleskopakh
v 1960-1963 gg.: [Pulkovo, Gor'kii, Kitab, Poltava, Kazan',
Irkutsk, Blagoveshchensk.] Moskva, 1964. 50 p.

(MIRA 18:5)

1. Akademiia nauk URSR, Kiev, Holovna astronomichna observa-
toriia. 2. Chlen-korrespondent AN Ukr.SSR (for Fedorov).

YAKUSHEVA, N.V.

New achievements of the Scientific and Technical Society of the
Petroleum and Gas Industries. Neftianik 7 no.4:24-25 Ap '62.

(MIRA 15:11)

1. Zamestitel' predsedatelya Tsentral'nogo pravleniya Nauchno-
tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti.
(Azerbaijan--Petroleum industry)
(Azerbaijan--Gas, Natural)

YAK us HEVA, O.M.

3(7) PAGE 1 XXX INFORMATION 507/508

Moscow. Theoretical '77 Institut prognozov

Voprosy dolgochnozhnykh prognozov (Problems in long-range forecasting)
Moscow, Glavnyy tsentr tsifrov. 1978. 104 p. (Series: Nauch. Trest,
777. 17) 2,100 copies printed.

Sponsoring Agency: USSR, Glavnyy upravleniye gidrometeorologicheskoy
sluzhby.

Ed.: (title page): V.M. Kurganovskiy; Ed. (inside book): V.I. Kurganovskiy;
Tech. Ed.: I.M. Zarzh

PURPOSE: This issue of the Institute's Transactions is intended for meteorological
and hydrographic specialists working in the field of long-range weather fore-
casting.

CONTENTS: This collection of articles deals with aspects of extended weather
forecasting. Individual articles discuss: synoptic conditions of wind
regimes most favorable to shipping along the Northern Sea Route (Soviet Arctic
Sea); synoptic conditions underlying a continuous ice cover in various parts
of the Sea of Azov; a method for compiling daily submarine 500-mb contour
maps (500) for 3 days by utilizing a sequence of the conservation of vortex
velocity and temperature fields; a method for the advance designation of
the basic field for periods of 3, 6, 12, and 24 hours; the determination of
definite relationships for forecasting air temperature for a natural synoptic
period. The results of actual tests in a series of investigations in extended
forecasting are cited. References accompany each article.

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	100

KISELEV, V.S., kand.veterinarnykh nauk; ALIKAYEVA, A.P., mladshaya nauchnaya
sotrudnitsa; YAKUSHEVA, O.V., mladshaya nauchnaya sotrudnitsa

Comparative study of standard allergens in the diagnosis of tuberculo-
sis in cattle caused by various types of agents. Trudy VIEV 22:27-
42 '59.

(MIRA 13:10)

(Tuberculosis in animals)

YAKUSHEVA, T.G.

Changeableness of temperament in children and adolescents.

Vop. psikhol. 2 no.4:106-115 J1-Ag '56.

(MLRA 9:10)

1. Kafedra psikhologii Saratovskogo pedagogicheskogo instituta.
(Temperament) (Child study) (Adolescence)

21121
S/191/61/000/012/005/007
B110/B147

5.3700

AUTHORS:

Golubtsov, S. A., Belyakova, Z. V., Yakusheva, T. M.

TITLE:

Synthesis of β -ethyl cyanide trichlorosilane

PERIODICAL: Plasticheskiye massy, no. 12, 1961, 20 - 21

TEXT: The long heating in the synthesis of β -ethyl cyanide trichlorosilane (I) according to J. C. Saam, J. L. Speier (see below):
 $\text{HSiCl}_3 + \text{CH}_2=\text{CH}-\text{CN} \longrightarrow \text{Cl}_3\text{SiCH}_2\text{CH}_2\text{CN}$ was avoided by working in a 0.5

liter autoclave. 53 g of acrylonitrile, 181.5 g of trichlorosilane, and 3.6 g of dimethyl formamide were heated for 1 - 2 hr, and the reaction products fractionated. Optimum yield (60 - 67%) of I was obtained by 1-hr heating at 80 - 100°C. At 50 - 70°C 47%, at 110 - 130°C 53% yield, only the β -isomer, was obtained. Rectification on a column (efficiency = 15 theoretical plates) yielded a fraction with 3.2% of trichlorosilane, 2.7% of azeotropic mixture (11% of acrylonitrile and 89% of SiCl_4), and 81.3% of SiCl_4 . The gases contained 84% of H_2 , 9.4% of N_2 , 1.5% of acid

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Synthesis of β -ethyl cyanide....

admixtures, and 5.1% of CH_3Cl . For the continuous synthesis of I (Fig.), dosing vessel 1 was filled through opening 4. The reaction mixture is pressed into the reaction vessel 2 (a spiral pipe immersed into water) by N_2 supplied through 5. Dosing valve 7 and connector 8 are placed between 1 and 2. The mixture passes from 2 into condenser 3. The condensate reaches the receiving vessel 12. The noncondensed gases are carried off through the throttle valve 9. By means of the continuous apparatus which can easily be automatized, working is possible for a longer period under steady conditions. Productivity of the reaction vessel per unit volume increases by the twofold as compared to cyclic operation under pressure, and by the 140-fold as compared to operation under atmospheric pressure. There are 1 figure and 5 non-Soviet references. The three most recent references to English-language publications read as follows: G. D. Cooper, M. Prober, J. Org. Chem., 25, 240 (1960); J. C. Saam, J. L. Speier, J. Org. Chem., 24, 427 (1959); S. Nozakura, S. Konotsune, Bull. Chem. Soc. Japan, 29, 322 (1956).

Card 2/3

YAKUSHEVA, T.M.

37753

S/661/61/000/006/004/081
D205/D302

5.3700

11.12.50

AUTHORS:

Trofimova, I. V., Andrianov, K. A., Golubtsov, S. A.,
~~Turetskaya~~, R. A., Belyakova, Z. V., Yakusheva, T. M.,
Lobusevich, N. P. and Luzganova, M. A.

TITLE:

On the regulation of the composition of products in the
direct synthesis of methyl- and ethyl chlorosilanes in
a fluidized bed

SOURCE:

Khimiya i prakticheskoye primeneniye kremneorganiches-
kikh soedineniy; trudy konferentsii. no. 6, Doklady,
diskussii, resheniya. II Vses. konfer. po khimii i prakt.
prim. kremneorg. soyed., Len., 1958. Leningrad, Izd-vo
AN SSSR, 1961, 25-27

TEXT: Regulation of the process is one of the main problems in
preparing monomeric organosilicon compounds. The most interesting
results were obtained during the attempt to regulate the product
composition by varying the preparation procedure of the catalyst.

Card 1/3

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D205/D302

On the regulation ...

This method opens wide possibilities as can be judged from the obtained data. Thus a synthesis carried out on a Si-Cu melt containing 15 - 20% Cu gave 6% $\text{CH}_3\text{HSiCl}_2$, 30 - 40% $(\text{CH}_3)_2\text{SiCl}_2$ and 40% CH_3SiCl_3 , while the synthesis on a Si-Cu melt activated by cuprous chloride gave 6% $\text{CH}_3\text{HSiCl}_2$, 55% $(\text{CH}_3)_2\text{SiCl}_2$ and 25% CH_3SiCl_3 . Further modifications of the catalyst bring about further changes in the composition. Preliminary experiments on the production of methyl chlorosilanes from methane, were performed. Methyl dichlorosilane can be prepared in this way, with trichlorosilane and silicon by-products which can be utilized. For synthesis of ethyl chlorosilanes other methods of regulating the product composition were employed: Preliminary treatment of the Si-Cu catalyst by various gases at elevated temperatures, dilution of ethyl chloride by gases and activation of the ethyl chloride by minor additions. The most interesting results were obtained with preliminary treatment by air at 370°C. About 45% of diethyl chlorosilane was present in the product using a catalyst treated in this way. Dilution

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D205/D302

On the regulation ...

of EtCl with HCl and the introduction of 0.5 - 0.7% moisture in-
creases the ethyl dichlorosilane content of diethyl dichlorosilane.
There are 1 figure and 3 tables.

Card 3/3

38678

S/079/62/032/006/006/006
D202/D304

5.3700
AUTHORS:

Belyakova, Z. V., Golubtsov, S. A. and Yakusheva, T.M.

TITLE:

Synthesis of organosilicon monomers containing the
β-cyanoethyl group

PERIODICAL: Zhurnal obshchey khimii, v.32,no.6, 1962, 1997-2003

TEXT: The authors studied the cyanoethylation of methylchlorosilane, but with no success. Syntheses were carried out of methyl, ethyl and phenyl derivatives of β-cyanoethyldichlorosilane from the trichlorocompound. Methyl-β-cyanoethyldichlorosilane was obtained from dimethylcadmium by the method of Cooper and Prober. The pure methyl compound was isolated from the reaction products by esterification with iso-butyl alcohol. Using ethyl and phenyl magnesium bromides, ethyl and phenyl-cyanoethyldichlorosilanes were prepared, the last not being previously described in literature. By a full or partial esterification of various cyanoethylchlorosilanes the authors obtained: β-cyanoethyltriethoxysilane, ethyl-β-cyanoethyldichlorosilane, β-cyanoethyltriacetoxysilane,

Card 1/2

Synthesis of organosilicon ...

S/079/62/032/006/006/006
D202/D304

methyl-β-cyanoethyldiethoxychlorosilane, and 6 new compounds:
β-cyanoethyldiethoxychlorosilane, β-cyanoethyldibutoxychlorosi-
lane, β-cyanoethylbutoxydichlorosilane, methyl-β-cyanoerhyldibu-
toxysilane, methyl-β-cyanoethyldi-iso-butoxysilane and ethyl-β-
cyanoethyldiacetoxysilane.

SUBMITTED: June 30, 1961

Card 2/2

BELYAKOVA, Z.V.; YAKUSHEVA, T.M.; GOLUBTSOV, S.A.

Reaction mechanism of addition of hydrides of chlorosilanes
to acrylonitrile, Zhur. ob. khim. 34 no. 5:1480-1484 My '64.
(MIRA 17:7)

BELYAKOVA, Z.V.; GOLUBTSOV, S.A.; YAKUSHEVA, T.M.

Addition of trichlorosilane to acrylonitrile and allyl cyanide.
(MIHA 18:8)
Zhur. ob. khim. 35 no.7:1183-1186 J1 '65.

YAKUSHEVA, T. S and LEITES, S.M.

"Action of Pancreatic Lipotropic Factor on Experimental Toxic Fatty Infiltration of the Liver", *onkolog. Patol.* 1949 - No. 4, pp. 44-48

One of the authoers has previously demonstrated the presence of a lipotropic ext. act which is capable of inhibiting fatty infiltration in the liver of pancreatectomized dogs. Experiments reported in the present paper were designed to test the effect of this factor on the fat content of the liver in guinea-pigs and rats subjected to the action of carbon tetrachloride. Guinea-pigs proved unsuitable for this work, many of them succumbing to the smallest doses of the drug. The oral administration of the lipotropic factor to rats reduced the accumulation of fat and cholesterol by an average of 20%. If the diet was adequate in casein and fat, then this relative rise in the phospholipid content of the liver.

L. Crome

Abstracts of World Medicine Vol. 7 1950 11, No. 4, 44-48, July-Aug., 1949. 7 refs.

YAKUSHEVA, T.S.

IOFFE, B.M.; TIRKINA, T.N.; YAKUSHEVA, T.S.

Effect of roentgen irradiation of the brain on glycemia and on glycosuria in experimental diabetes. Vest.rent.i rad. no.1:42-49 Ja-F
(MIRA 8:5)
'55.

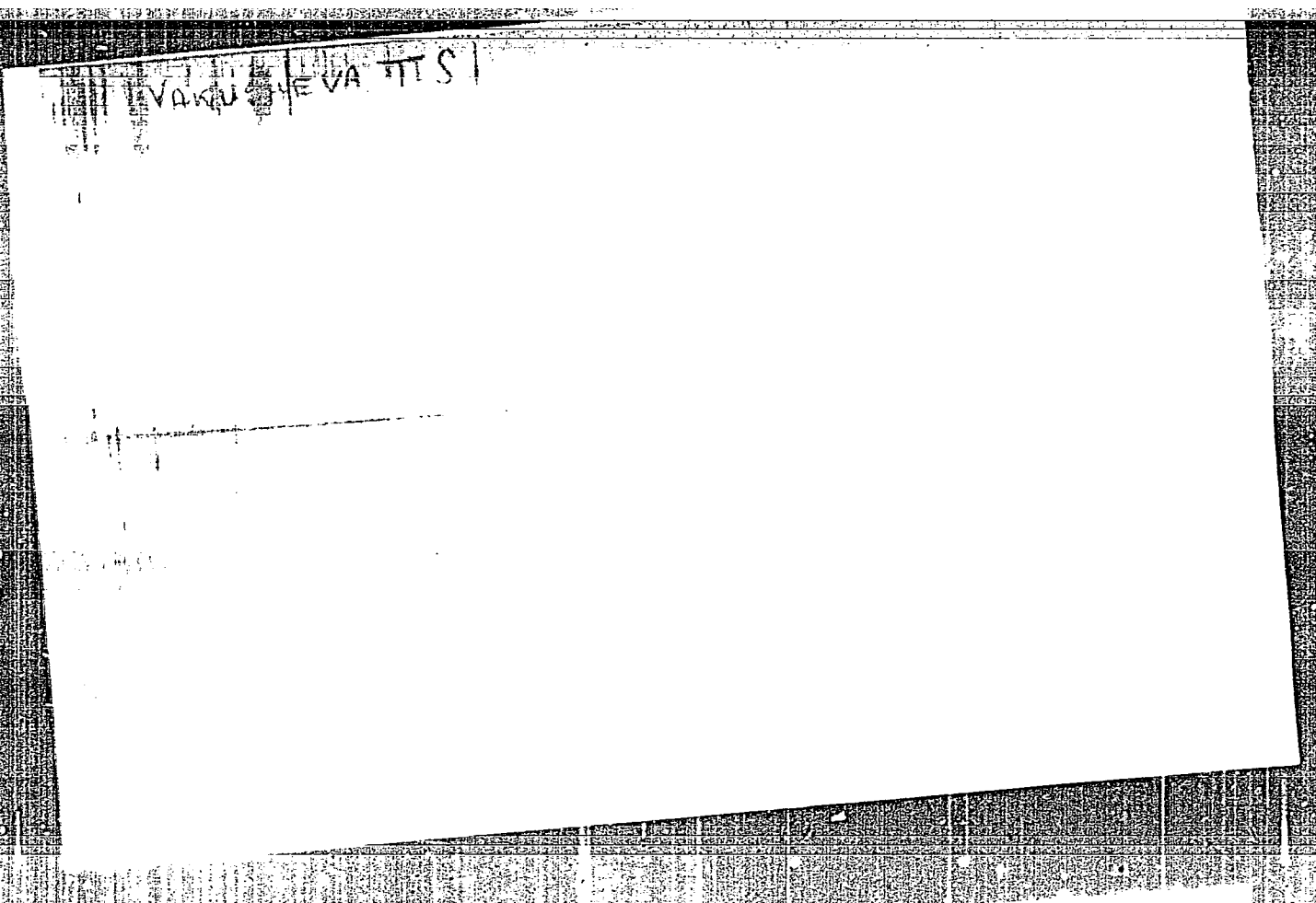
2. Iz oblasti patofiziologii (sav. prof. S.M.Leytes) Vsesoyuznogo
instituta eksperimental'noy endokrinologii (dir.prof.Ye.A.Vasyukova).
(MIRA 8:5) experimental.

YANICHEVA, T.S.

Yakusheva, T.S.

Influence of adrenocortical hormone of hypophysis and of cortisone on hyperglycemia, glycosuria, and ketonemia during experimental diabetes. S. M. Lestes and T. S. Yakusheva (All-Union Inst. Exptl. Endocrinol., Moscow). *Problemy Endokrinol. i Gormonoterap.* 1, No. 8, 47-51 (1955).—Doses of adrenocortical hormone or cortisone, which in normal dogs do not elicit hyperglycemia and hyperketonemia, intensify hyperglycemia and ketonemia in dogs with alloxan diabetes. Treatment with the hormones does not affect responses to insulin in dogs with alloxan diabetes. *I. A. Siskel* MD (2)

Dept. Pathophysiology



FD-2462

YAKUSHEVA, T. S.
USSR/Medicine - Physiology

Card 1/1 Pub 33-13/24

Author : Leytes, S. M.; Pavlov, G. T.; Yakusheva, T. S.

Title : The role of the central nervous system in the regulation of glycemia in normal and diabetic animals in repeated intravenous administration of glucose.

Periodical : Fiziol. zhur. 2, 249-256, Mar-Apr 1955

Abstract : Repeated injection of glucose in dogs during hyperglycemia produced by a preceding glucose administration produces a smaller increase of blood sugar than the first dose and this is true also for dogs with alloxan diabetes. Adrenalin (0.5 cc 1:1000) injected during the peak of hyperglycemia resulting from a preceding glucose administration, does not produce any further increase of blood sugar. The response to repeated glucose injection is not changed during amytal or ether anesthesia. From this it is concluded that the center for blood sugar regulation is located in the lower part of the C.N.S., probably in the medulla oblongata. Tables. Ten references, all USSR and all since 1940.

Institution: Department of Pathophysiology of the All-Union Institute of Experimental Endocrinology, Moscow

Submitted : October 2, 1952

YAKUSHEVA, T. S.

✓ Effect of a preparation of hypophysis on certain phases of fat exchanges. S. M. Leites, A. A. Molchanova, and T. S. Yakusheva (All-Union Inst. Exptl. Endocrinol., Moscow). *Problemy Endokrinol. i Gormonoterap.* 2, No. 3, 49-53 (1956).—Anterior lobes of pituitary from cattle and swine were treated as follows: extd. with KOH or NaOH at pH 11, fractionated with $(\text{NH}_4)_2\text{SO}_4$, dialyzed, boiled for 10-15 min. at pH 10, and pptd. with $(\text{CH}_3)_2\text{CO}$ or EtOH. Yield: 3-5 g./kg. of gland. This prepn. contains an active fraction which induces a transient accumulation of

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fat in the liver, an increase in production of the oxidation products of fat (ketone bodies), and retardation in weight gain in animals (mice and rats). Liver glycogen and blood sugar remain unaffected. These effects are not produced by any known component of the gland, and a possibility of the existence of a new component is thus indicated.

J. A. S. et al.

YAKUSHEVA, T.S.

Effect of sodium tartronate on the weight and fat and glycogen content of livers of rats and mice [with summary in English]. Biol. eksp.biol. i med. 45 no.1:51-53 Ja '58. (MIRA 11:4)

1. Iz otdela patofiziologii Vsesoyuznogo instituta eksperimental'noy endokrinologii, Moskva. Predstavlena deyativitel'nyy chlenom AMN SSSR S.Ye.Severinym.

(TARTRONATES, effects,

sodium tartronate on body weight & liver fat & glycogen (Rus))

(LIVER, effect of drugs on,

sodium tartronate on fat & glycogen metab. (Rus))

(FATS, metabolism,

liver, eff. of sodium tartronate (Rus))

(GLYCOGEN, metabolism,

same)

(BODY WEIGHT, effect of drugs on,

sodium tartronate in mice & rats (Rus))

LEYTES, S.M., prof.; YAKUSHEVA, T.S. (Moskva)

Effect of ACTH and cortisone on fat and glycogen in the liver in experimental toxic hepatitis. Pat. fiziol. i eksp. terap. 3 no.3: 8-11 My-Je '59. (MIRA 12:7)

1. Iz otdela patologicheskoy fiziologii (zav. - prof. S.M. Leytes) Vsesoyuznogo instituta eksperimental'noy endokrinologii Ministerstva zdavookhraneniya SSSR (dir. - prof. Ye.A. Vasyukova).

(HEPATITIS, exper.

eff. of ACTH & cortisone on hepatic glycogen & lipid metab. (Rus))

(ACTH, eff.

on liver glycogen & lipid metab. in exper. hepatitis (Rus))

(CORTISONE, eff.

same)

(GLYCOGEN, metab.

liver, in exper. hepatitis, eff. of ACTH & cortisone (Rus))

(LIPIDS, metab.

same)

LEYTES, S.M.; AL'KHIMENYUK, V.P.; YAKUSHEVA, T.S.

Pathophysiological characteristics of experimental obesity
produced with aurothioglucose. Pat. fiziol. i eksp. terap.
5 no.5:37-46 '61 (MIRA 17:4)

GASANOV, S.S.; YAKUSHEVA, T.S.

Effect of excision of the thymus gland on various indicators
of nitrogen and fat-carbohydrate metabolism in rats. Probl. endok.
i gorm. 7 no.2:23-30 '61. (MIRA 14:5)
(THYMUS GLAND--SURGERY) (NITROGEN METABOLISM)
(FAT METABOLISM) (CARBOHYDRATE METABOLISM)

GASANOV, S.G.; YAKUSHEVA, T.S. (Moskva)

Effect of hypothermia on some indices of nitrogen and lipocarbhydrate metabolism in thymectomized animals. Pat.fiziol.i eksp.terap. 6 no.2:54-58 Mr-Apr '62. (MIRA 15:3)

1. Iz otdela patofiziologii (zav. - prof. S.M.Leytes) Vsesoyuznogo instituta eksperimental'noy endokrinologii (dir. - prof. Ye.A. Vasyukova).

(HYPOTHERMIA)

(METABOLISM)

(THYMECTOMY)

~~YAKUSHEVA~~, S. M., prof.; YAKUSHEVA, T. S. (Moskva)

Interaction between pituitary and adrenocortical hormones in the regulation of the fat and glycogen content of the liver. Probl. endok. i gorm. 8 no.3:7-10 My-Je '62. (MIRA 15:6)

1. Iz otdela patofiziologii (zav. - prof. S. M. Leytes) Vsesoyuznogo instituta eksperimental'noy endokrinologii (dir. - prof. Ye. A. Vasyukova)

(PITUITARY HORMONES) (ADRENOCORTICAL HORMONES)
(LIVER--GLYCOGENIC FUNCTION) (FAT METABOLISM)

YAKUSHEVA, V., inzh.

Economical reinforced concrete elements. Sel'. stroi. 18
no.5:9-10 My '63. (MIRA 16:6)

(Precast concrete)

DOBROV, S.G., inzh.; YAKUSHEVA, V.A.

ND-60-C molding machine for rural construction. Stroi.i dor.mash.
6 no.7:24-26 JI '61. (MIRA 14:7)
(Precast concrete)

NEKRASOV, Aleksandr Sergeyevich, kand. tekhn. nauk; YAKUSHEVA,
V.A., inzh., nauchn. red.; KROMOSHCH, I.L., red.

[Framed buildings with wall filling of local building
materials] Karkasnye zdaniia s zapolneniem sten mestnymi
stroitel'nymi materialami. Moskva, Stroiizdat, 1964. 130 p.
(MIRA 17:5)

STOLYAROV, B.V.; YAKUSHEVA, V.I.

Casting of aluminum alloy fittings. Lit. proizv. no.8:36 Ag
'62. (MIRA 15:11)
(Aluminum founding)

YAKUSHEVA, Ye.B.

Calculation of evaporation losses and regularity of flow in the
evaluation of base flow of the trans-Volga region. Trudy GGI
no.122:131-141 '65. (MIRA 18:9)

BOGDANOV, K.A.; YAKUSHEVA, Ye.F.; AGARYSHEV, V.P.; GOL'DENSHTEYN, L.M.

Production of benzyl acetate by esterification and removal of water by toluene. Masl.-zhir.prom. 25 no.11: 38-39 '59. (MIRA 13:3)

1. Kalushskiy kombinat sinteticheskikh dushistykh veshchestv.

(Acetic acid) (Toluene)

BOGACHEVA, K.I.; BYCHKOVA, Z.N.; SHILINA, R.F.; YAKUSHEVA, Ye.F.;
GRIGOR'YEVA, Ye.F.

Better methods for manufacturing pseudoionone. Trudy VNIISINW
no.5:112-113 '61. (MIRA 14:10)

(Pseudoionone)

YAKUSHEVA, Yekaterina, Yakovlevna

YAKUSHEV, Yakov Afanas'yevich; YAKUSHEVA, Yekaterina Yakovlevna; DUL'NEV, G.M., otvetstvennyy red.; VOSKRESENSKIY, G.N., red.; TARASOVA, V.V., tekhn.red.; LAUT, V.G., tekhn.red.

[The organization of agricultural teaching in auxiliary schools; based on practical experience] Organizatsiya obucheniia sel'sko-khoziaistvennomu trudu vo vspomogatel'noi shkole; iz opyta raboty. Otv. red. G.M.Dul'nev. Moskva, Izd-vo Akad.pedagog.nauk RSFSR, 1957. 86 p. (MIRA 11:2)

(Agriculture--Study and teaching)

"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020008-3

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962020008-3"

YAKUSHEVA, Z. P.

2102. Conductimetric titration of certain salts with barium hydroxide. I. Titration of nickel sulphate. M. I. Usanovich, Z. P. Yakusheva and S. V. Telecheva. *Tekhn. Zhp. Khim. Ind.* 1961, 18, 21-26; *Ref. Zhur. Khim.* 1965, Abstr. No. 23,981. Conductimetric titration with $\text{Ba}(\text{OH})_2$ solution can be used for the titration of solutions of NiSO_4 , NiSO_3 and H_2SO_4 and NiSO_4 in the presence of Na_2SO_4 and of Na_2SO_4 and H_2SO_4 but the presence of KCl decreases the accuracy of the determination of NiSO_4 and Na_2SO_4 cannot be titrated in the presence of NiSO_4 . G. S. SMITH

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PM

USANOVICH, M.I.; YAKUSHEVA, Z.P.

Conductometric titration of the system $H_2SO_4 - ZnSO_4 - Na_2SO_4$.
Zhur.prikl.khim. 35 no.2:447-449 F '62. (MIRA 15:2)

1. Kazakhskiy gosudarstvennyy universitet imeni A.M.Kirova.
(Sulfates) (Conductometric analysis)

YAKUSHEVA, Z.P.

Conductometric titration of phosphoric acid. Zhur.prikl.khim.
35 no.10:2195-2199 0 '62. (MIRA 15:12)

1. Kazakhskiy gosudarstvennyy universitet im. S.M.Kirova.
(Phosphoric acid) (Conductometric analysis)

YAKUSHEVA, Z.P.; YAN-SHO-SYAN, G.V.

Conductometric titration of the system $H_3BO_3 - H_2SO_4 - MgSO_4$.
Zhur.prikl.khim. 35 no.10:2199-2204 0 '62. (MIRA 15:12)

1. Kazakhskiy gosudarstvennyy universitet imen' S.M.Kirova.
(Boric acid) (Magnesium sulfate)(Conductometric analysis)

YAKUSHEVA, Z.P.; Primeneniye uchastiya F YANYKH. R.

Conductometric titration of the KJ-1 and KY-2 ion exchangers.
Zhur. prikl. khim. 38 no.1:181-185 Ja '65.

(NIPA 10:3)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova.

YAKUSHEVA, Z.P.; HAZAROV, B.K.

Conductometric titration of acids. Zhur. prikl. khim. 37 no.10:
2216-2223 0 '64. (MIRA 17:11)

1. Kazakhskiy gosudarstvennyy universitet imeni Kirova.

1. YAKUSHEVICH, K.
2. USSR (600)
4. Moving-Picture Projectors
7. Organization of planned preventive repair of apparatus, Kinomekhanik, No. 10, 1952.
9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

YAKUSHEVICH, M.V.

Properties of some Uzbekistan pomegranates as determined from the chemical and mechanical composition of their fruits. M. V. Yakushevich. *Trudy Plod.-Yagod. Inst. Akad. Nauk Uzbek. S.S.R.* 1954, No. 20, 117-20; Referat. *Zhur., Khim., Biol. Khim.* 1955, No. 0159.--- Analyses were made for the content of sugar and acid in the juice of the fruit and of tannin substances in the skin of 10 Uzbekistan pomegranate varieties. Differences were found with the differences in species and climatic conditions in any particular year. Generally, however, the Uzbekistan pomegranates did not seem to differ substantially from the pomegranates of any other region of the Soviet Union. The content of tannic substances was high and pomegranates are suggested as a source of tannin material.

B. S. Levine

~~YAKUB~~ YAKUBOVICH, M. V.

910/ The chemical composition of the fruits of *Ficus carica*.
M. V. Yakubovich. *Trudy Plod.-Yagod. Inst. Akad. Nauk Uzbek. S.S.R.* 1954, No. 20, 121-4; *Referat. Zhur. Khim., Biol. Khim.* 1955, No. 9127. — The fresh fruits of ten species of the *Ficus* grown in the region of Tashkent were studied. Sugar was found to vary from 14.2% to 29.7% and acids from 0.133 to 0.531%. Annual variation were also observed. D. S. Levina

YAKUSHEVICH, O.B. [Iakushevych, O.B.], byvshiy nestoyatel' Uapenskoy
tsarkvi v g.Zaporozh'ye.

Why did I renounce my priesthood? Nauka i zhyttia 9 no.11:
52-54 N '59. (MIRA 13:3)
(Atheism) (Priests)

YAKUSHEVSKAYA, I.V.

YAKUSHEVSKAYA, I.V. "The Soils of Vladimirskeye Opol'ye." Moscow Order of Lenin and Order of Labor Red Banner State University Lomonosov. Soil Biology Faculty, Moscow, 1956.
(Dissertation for the Degree of Biological Science)

So: Knizhnaya Letopis', No. 18, 1956,

KOVDA, V.A.; YAKUSHEVSKAYA, I.V.; TYURYUKANOV, A.N.

Trace elements in soils of the U.S.S.R. Izv. AN SSSR. Ser. biol.
no.5:562-570 S-O '58. (MIRA 11:10)

1. Moskovskiy gosudarstvennyy universitet imeni M.V. Lomonosova,
Biologo-pochvennyy fakul'tet.
(MINERALS IN SOIL)

KOVDA, V.A.; YAKUSHEVSKAYA, I.V.; TYURYUKANOV, A.N.; PEREL'MAN, A.I.,
doktor geologo-mineralog.nauk, otv.red.; YERMAKOV, M.S.,
tekhn.red.

[Trace elements in the soils of the Soviet Union] Mikroele-
menty v pochvakh Sovetskogo Soiuza. Moskva, Izd-vo Mosk.univ.,
1959. 63 p. (MIRA 13:3)
(Trace elements) (Soils)

YAKUSHEVSKAYA, I.V.

Soils of the Opolye region in Vladimir Province. Nauch.dokl.
vys.shkoly; biol.nauki no.1:194-201 '59. (MIRA 12:5)

1. Rekomendovana kafedroy pochvovedeniya Moskovskogo gosudar-
stvennogo universiteta im. M.V.Lomonosova.
(OPOLYE--SOILS)

YAKUSHEVSKAYA, I.V.

Bottom-land soils on islands of the Northern Dvina River
in the Kholmogory region. Vest. Mosk. un. Ser., biol.,
pochv., geol., geog. 14 no.3:91-100 '59. (MIRA 13:6)

1. Kafedra pochvovedeniya Moskovskogo universiteta.
(Kur Island--Soils) (Hal' Island--Soils)

YAKUSHEVSKAYA, I.V.

Microelement content of certain soils in the Opolye region of Vladimir Province. Pochvovedenie no.6:92-96 Je '60: (MIRA 13:11)

1. Moskovskiy gosudarstvennyy universitet.
(Vladimir Province--Trace elements)
(Vladimir Province--Soils)

DOBROVOL'SKIY, G.V.; YAKUSHEVSKAYA, I.V.

Some patterns of trace element distribution in soils of river
valleys. Vest. Mosk. un. Ser. 6: Biol., pochv. 15 no. 5:57-70
S.O '60. (MIRA 13:12)

1. Kafedra pochvovedniya Moskovskogo universiteta.
(Alluvial lands) (Trace elements)

KORENEVSKAYA, V.Ye.; YAKUSHEVSKAYA, I.V.; KAPLUNOVA, L.S.; KHUDYAKOVA, Yu.A.

Soil improvement characteristics of the Palace of the Soviets Park.
Vest. Mosk. un. Ser. 6: Biol., pochv. 18 no.1:45-56 Ja-F '63.

(MIRA 16:12)

1. Kafedra fiziki i melioratsii pochv, kafedra pochvovedeniya,
kafedra agrokhimii, i kafedra biologii pochv. Moskovskogo universiteta.

YAKUSHEVSKAYA, I.V.

Novgorod oak-forest soils. Pochvovedenie no.8:25-34 kg '65.
(MIRA 18:9)

1. Moskovskiy gosudarstvennyy universitet imeni M.V.Lomonosova.

YAKUSHEVSKAYA, K. YE. and KONDRAT'YEV, K. YE.

"New Methods of Computing the Radiant Flow of Heat," an article in Scientific Notes of the Leningrad Order of Lenin State University named A. A. Zhdanov, No. 210, Physics Institute, Physical Science Series, No. 9, Geophysics, 1956, 190 pp.

SUM: 1360

YAKUSHEVSKAYA, K. YE., YELOVSKIY, M. P. and KONDRAT'yev K. YA.

"On the Absorption of Infrared Radiation by the Atmosphere,"
an article in Scientific Notes of the Leningrad Order of Lenin State University
imeni A. A. Zhdanov, No. 210, Physics Institute, Physical Science Series, no. 9,
Geophysics, 1956, 190 pp.

SUM: 1360

YELOVSKIKH, M.P.; KONDRAT'YEV, K.Ya.; YAKUSHEVSKAYA, K.Ye.

Atmospheric absorption functions for heat radiation. Uch.zap.Len.
un. no.210:3-8 '56. (MLRA 9:8)
(Atmospheric temperature) (Solar radiation)

YAKUSHEVSKAYA, K. Ye.

Summary translation from: Referativnyy Zhurnal, Geografiya, 1957, 14-1-565
Nr 1, p. 64 (USSR)

AUTHOR: Kondrat'yev, K. Ya., Yakushevskaya, K. Ye.

TITLE: A New Method for Calculating the Radiant Influx of Heat
(Novyy sposob rascheta luchistogo pritoka tepla)

PERIODICAL: Uch. Zap. LGU, 1956, Nr 210, pp. 57-63

ABSTRACT: A practical method for calculating radiant heat influx based on the premise of the homogeneity of the atmosphere along a horizontal level is presented. The radiant heat influx (LPT) is expressed by the formula $\epsilon = -cF/dz$, where F is the heat radiation current. The magnitude of the derivative is determined by the values of the transmission function derivative at different atmospheric levels. A radiant heat influx (LPT) formula, convenient for nomographic use, is obtained by using approximate radiation transference equations. Data on the transference function derivative is the basic initial material in making up the nomogram, which in turn permits detailed investigation of the vertical profile of radiational changes in atmospheric surface temperature. Scales provided by the

Card 1/2*

1
A New Method for Calculating the Radiant Influx of Heat (Cont.)¹¹⁻¹⁻⁵⁶⁵

nomogram are convenient for surface-stratum calculations;
for free atmosphere calculations, however, the scales
must be modified.

I. Sh.

Card 2/2

YAROSLAV CHAPMAN, R.V.
A. A. ...
Vesnik Centralnyy Ser...
in Russia
The ...

GAYEVSKAYA, G. H., KONDRAT'YEV, K. Ya., and YAKUSHEVSKAYA, K. Ye.

"The Radiative Flux Divergence and the Heat Regime in
the Near-Ground Layer of the Atmosphere."

report submitted in connection with the Symposium on Radiation
Vienna Austria, 14-19 Aug 1961

3.5110

5/560/62/000/014/001/011
A001/A101

AUTHORS: Kondrat'yev, K. Ya., Yakushevskaya, K. Ye.

TITLE: The angular distribution of outgoing thermal radiation in various bands of the spectrum

SOURCE: Akademiya nauk SSSR. Iskusstvennyye sputniki Zemli. no. 14, 1962, 13 - 29

TEXT: The purpose of the present article is studying regularities in angular distribution of intensity of thermal radiation outgoing from the Earth, as a planet, in various bands of the spectrum, using the method of theoretical calculations. The latter are based on phenomenological equations of radiation transfer with long wavelengths, which are integrated by the graphical method. The most recent data are used for quantitative characteristics of infrared radiation absorption. At first calculations were carried out for the conditions of some idealized, averaged stratification of the atmosphere. The radiation field was calculated for a point located at an altitude of 300 km and latitudes of equator ($\varphi = 0$) and $\varphi = 65^\circ\text{N}$. The calculated values of angular distribution

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The angular distribution of outgoing...

S/550/62/000/014/001/011
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of outgoing radiation intensity $U(\vartheta)$ (ϑ - zenith angle) are presented graphically. An analysis of the curves shows that absolute changes in radiation intensity with latitude are considerably less than changes caused by changing conditions of cloudiness in the most bands of the spectrum. The changes of $U(\vartheta)$ with latitude are the less the farther is the band of the infrared spectrum. A concept of relative intensity of outgoing radiation is introduced, which is defined as the ratio $U(\vartheta)/U(0)$, where $U(0)$ is intensity of radiation in nadir. The phenomenon of infrared "darkening" toward the boundary of the atmosphere occurs more sharply, steep and rapid in the band 10.55 - 11.01 microns than in other spectrum bands. The calculations were performed on assumption of an atmosphere which is quasisymmetrical with respect to distribution of temperature and absorbing gases. Under actual synoptic conditions, azimuthal variation of $U(\vartheta)$ may be considerably larger. Next the concept of relative magnitude of radiation flux $F(\vartheta_0)/F(0)$ is introduced and it is shown that angular distributions of both ratios, relative intensities and relative fluxes, coincide within the range of angles $0 - 70^\circ$. There are 10 figures and 5 tables.

SUBMITTED: February 26, 1962

Card 2/2

ACCESSION NR: AT4033369

S/2960/63/000/002/0048/0066

AUTHOR: Kondrat'yev, K. Ya.; Yakushevskaya, K. Ye.

TITLE: The problem of the spectral distribution of outgoing radiation

SOURCE: Leningrad. Universitet. Problemy* fiziki atmosfery*, no. 2, 1963, 48-66

TOPIC TAGS: meteorology, atmospheric outgoing radiation, radiation spectrum

ABSTRACT: In this paper the authors have determined the intensity of atmospheric outgoing radiation at the nadir in 27 spectral parts of the 1-18 μ region (in the interval 1-12 μ intensity also was determined for a zenith angle $\vartheta = 30^\circ$). The basis for the computations is recent experimental data on absorption of long-wave radiation by water vapor, carbon dioxide and ozone. The following typical atmospheric stratifications are used in the study: 1) winter, arctic air mass; 2) winter, continental polar air mass; 3) summer, continental polar air mass; and 4) summer, monsoon air mass. The results of the computations of atmospheric radiation are shown in Figures 1-9 of the Enclosure; these constitute the principal contribution of the study. "The authors wish to thank A. D. Poddubik and other associates for performing the tedious computation work." Orig. art. has: 5 formulas, 9 figures and 2 tables.

Card 1/12

RODOLPH, J. P.; TILLOT, J. P., R. V.

Angular radiation of heat radiation from the system earth-atmosphere in various spectral regions. Study 170 no. 168: 82-101 (1974). (JPLPA 12:11)

L 62973-65 WC(v)/BET(1) BW
ACCESSION NR: AP5017105

UR/0054/65/000/002/0153/0156

AUTHOR: Yakushevskaya, K. Ye.

TITLE: On an approximation in calculating thermal radiation of atmosphere

SOURCE: Leningrad. Universitat. Vestnik. Seriya Fiziko-Matematicheskie Nauki, NO. 2, 1965, 196.

TOPIC TAGS: radiation heat transfer, approximation method, black body radiation, spectrum emission

ABSTRACT: The Planck radiation function integral $E_{\lambda} = \int E_{\lambda} d\lambda$ was compared to an approximate equation $E_{\lambda} = f_{\lambda} E$ where f is independent of the temperature and $E = \sigma T^4 / \pi$. A set of numerical examples is obtained in the water vapor absorption band for three atmospheric conditions corresponding to the equatorial latitudes (summer) and at 65° latitude (summer and winter).

These calculations gave the best results in the infrared region of the spectrum.

L 63973-65
ACCESSION NR: AP5017105

as compared with the exact solution. "The author expresses her deep gratitude to
R. M. Gul'dina⁴⁵, A. D. Poddubik⁵⁵, N. V. Korol'kova, and L. I. Moskvina for doing the
various calculations in this work. The article has: 3 formulas, 1 figure and 1
table.

ASSOCIATION: none

SUBMITTED: 02Apr63

ENCL: 00

SUB CODE: TD,
OP

NO REF SOV: 003

OTHER: 001

RC
Card 2/2

L 21742-66 EWT(1) GW
ACG NR: AT6007612

SOURCE CODE: UR/2960/65/000/003/0069/0072

AUTHOR: Yakushevskaya, K. Ye.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet)

TITLE: On comparing experimental and theoretically calculated values of the intensity of anisotropic radiation of the atmosphere

SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 69-72

TOPIC TAGS: atmospheric radiation, atmosphere, thermal radiation, black body radiation, radiation intensity, absorption band, spectrum

ABSTRACT: Calibration graphs that are constructed in the form of radiation-meter readings as a function of the temperature of an absolutely black body are shown to be of use only in determining the equivalent temperature of a non-black body. The equivalent temperature T_{eq} satisfies the condition

$$E(T_{eq}) \int \cos \theta d\omega = \int I(P, \vec{r}) \cos \theta d\omega,$$

where $I(P, \vec{r})$ is the intensity of the measured radiation at point P in direction

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L 21742-66
ACC NR: AT6007612

→. The relationship between the true (U) and effective (U_{ef}) intensities of thermal departing radiation at $h = 300$ km is examined. It is found that the lower the altitude of the observation point the wider is the range of zenith angles in which $U = U_{ef}$. It is shown that measurements of departing radiation by small-angle radiation meters cannot always be interpreted as direct measurements of the intensity of departing radiation. This should be borne in mind in examining the results of an experiment and in their quantitative comparison with theoretical calculations. Orig. art. has: 3 formulas and 2 tables.

SUB CODE: 04/ SUBM DATE: none

Card 2/2 *ju*

L 21741-66 EWT(1) GW
ACC NR: AT6007614

SOURCE CODE: UR/2960/65/000/003/0083/0095

AUTHOR: Yakushevskaya, K. Ye.

ORG: Leningrad State University (Leningradskiy gosudarstvennyy universitet) ³¹₂₉ BT1

TITLE: The contribution of the earth's surface, clouds, and various layers of the atmosphere to departing radiation

SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 83-95

TOPIC TAGS: earth radiation, atmospheric radiation, atmosphere, atmospheric model, atmospheric sounding, atmospheric humidity, atmospheric cloud

ABSTRACT: Evaluations of the contribution of the earth and individual layers of the atmosphere to departing radiation are made for a considerably greater number of spectral regions in the most varied areas of the infrared spectrum than in previous attempts. The calculations are made for a zenith angle $\vartheta = 0$ as well as for nonvertical directions. These calculations were performed for a spherical model of the atmosphere and for mid-season and mid-latitude stratifications of the atmosphere. Results of the calculations for the range of zenith angles of

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L 21741-66

ACC NR: AT6007614

0--72°45' (altitude $h = 300$ km) are shown in Fig. 1. The contribution of the emitting surface or any atmosphere layer to departing radiation does not undergo substantial variations at small zenith angles. The ratio of the contributions of various layers varies little in this range of zenith angles. When the moisture

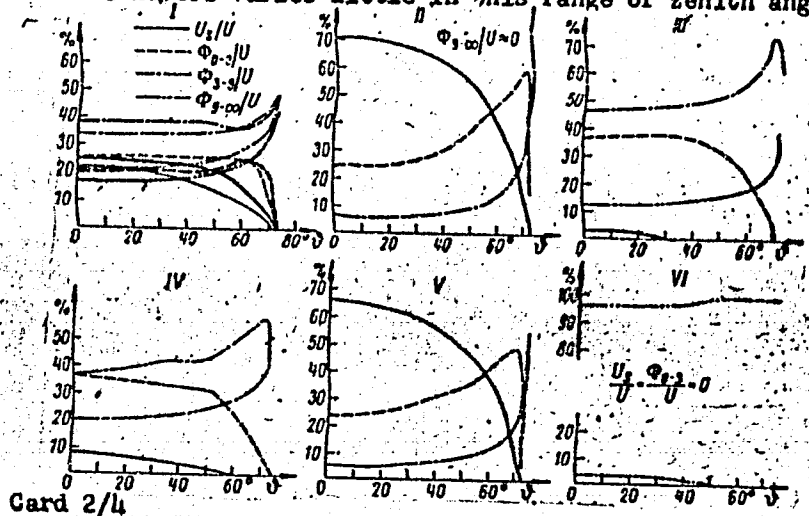
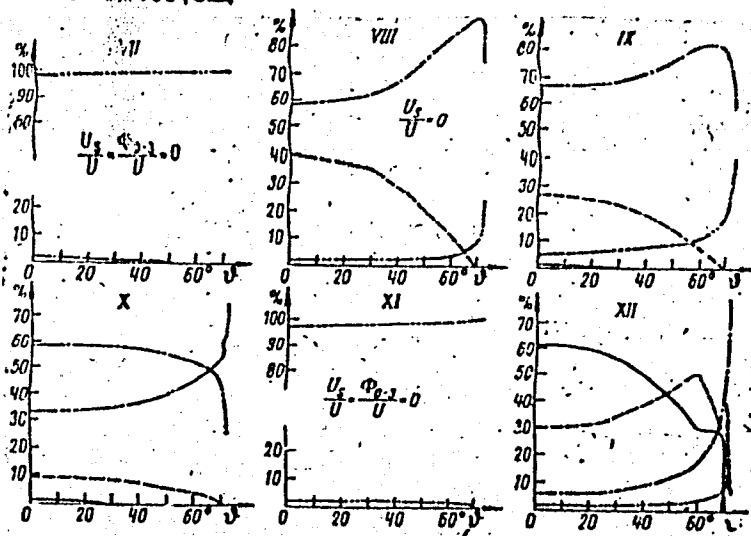


Fig. 1. Contribution of earth's surface and various atmosphere layers to departing radiation in range of zenith angles of 0--72°45'; $\phi = 0^\circ$; summer. I - integral radiation; II - 10.55--11.01 μ ; III - 4.88--8.70 μ ; IV - 12--18 μ ; V - 9.01--10.29 μ ;

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L 21741-66
ACC NR: AT6007614



VI - 6.49--6.58 μ ;
VII - 41.67--45.45 μ ;
VIII - 5.00--5.05 μ ;
IX - 17.86--18.52 μ ;
X - 18--40 μ ;
XI - 40--120 μ ;
XII - 8.70--12.00 μ .

content of the atmosphere is high, the contribution of the water vapor radiation is considerable and must be taken into account in thermal sounding of the

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L 21741-66
ACC NR: AT6007614

atmosphere by frequency scanning. The author thanks A. D. Poddubik, R. M. Gul'dina, and others for the calculations. Orig. art. has: 6 graphs. 2

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 005

Card 4/4

uvr

E 30999-66 ENT(1) GW

ACC NRI AT6007613

SOURCE CODE: UR/2960/65/000/003/0073/0082

AUTHOR: Yakushevskaya, K. Ye.

26

Bri

ORG: none

TITLE: The angular dependence of the spectral distribution of outgoing thermal radiation

SOURCE: Leningrad. Universitet. Problemy fiziki atmosfery, no. 3, 1965, 73-82

TOPIC TAGS: spectral structure, outgoing thermal radiation, ozone zone, zenithal distance, atmospheric stratification, infrared radiation

ABSTRACT: The spectral and angular structures of outgoing thermal radiation are analyzed using computational data. The spectral distribution of the radiation changes little within the interval of zenithal distances from 0° to $73^\circ 1'$. A cloudless sky causes a minimum in the intensity of the ozone range which occurs at a zenithal distance of more than $72^\circ 45'$. This phenomenon may be explained by the absorption of radiation by ozone. The outgoing radiation within the range of zenithal distances from 0° to $72^\circ 45'$ (this angle is the depression of the horizon from a height of 300 km above sea level) varies depending upon high clouds and atmospheric stratification. High clouds and cool stratification layers markedly increase outgoing longwave infrared radiation. The intensity of radiation depends upon the upper limit of the radiation-absorbing gas extension. Orig. art. has: 6 figures. [EG]

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 003/ OTH REF: 003/ ATD PRESS: 4214

Card

1/1

KATS, A. L.; KHRABROV, Yu. B.; FEDULOVA, M. N.; YAKUSHEVA, O. M.

Use of empirical influence functions to forecast mean values of H_{500} at the present time and the tendency for the subsequent synoptic period. Trudy TSIP no.119:24-35 '62.

(MIRA 16:1)

(Atmospheric pressure)

BOGDANOV, K.A.; YAKUSHEVA, Ye.F.; SHULOV, L.M.

Odoriferous principle with a sweet. Musk odor obtained from a dicresol mixture. Masl.-zhir.prom. 29 no.1:37 Ja '63. (MIRA 16:2)

1. Kaluzhskiy kombinat sinteticheskikh dushistykh veshchestv (for Bogdanov, Yakusheva). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Shulov).

(Musk)

(Cresol)

YAKUSHEVSKIY, A., mayor

Ideological training of the Air Force personnel of the United States. Av. i kosm. 47 no.11:90 N '64.

(MIRA 17:11)

ZHIZLOV, N.I., kand.tekhn.nauk, nauchnyy rabotnik; ZBORSHCHIK, M.P., inzh.;
nauchnyy rabotnik; ZEMLYANSKIY, L.V., inzh., nauchnyy rabotnik;
KOREPANOV, K.A., kand.tekhn.nauk, nauchnyy rabotnik; MALOV, V.P.,
kand.tekhn.nauk, nauchnyy rabotnik; MEDVEDEV, B.I., kand.tekhn.
nauk, nauchnyy rabotnik; NOVITSKIY, A.M., kand.tekhn.nauk,
nauchnyy rabotnik; PROKOF'YEV, V.P., nauchnyy rabotnik; SAPITSKIY,
K.F., kand.tekhn.nauk, nauchnyy rabotnik; YAKUSHEVSKIY, A.Yu.,
kand.tekh.nauk, nauchnyy rabotnik; LIPKOVICH, S.M., dotsent, red.;
SHUSHKOVSKAYA, Ye.L., red.izd.; BERESLAVSKAYA, L.Sh., tekhn.red.;
ALADOVA, Ye.I., tekhn.red.

[Working gently sloping seams at great depths] Razrabotka pologo-
padaushchikh plastov na bol'shikh glubinakh. Pod obshchei red.
S.M.Lipkovicha. Moskva, Ugletekhizdat, 1958. 209 p. (MIRA 12:2)

1. Stalino. Donetskii industrial'nyy institut. 2. Donetskii
industrial'nyy institut (for all except Lipkovich, Smushkovskaya,
Bereslavskaya, Aladova)

(Coal mines and mining)

TAKUSHINSKIY, B. N.

TAKUSHINSKIY, B. N. -- "Certain Energy Constants of Ions." Sub 12
Nov 52, Moscow Order of Lenin Chemicotechnological Inst named L. I. Men-
delayev. (Dissertation for the Degree of Candidate in Chemical Sciences).

SO: Vechernaya Moshva January-December 1952

KAPUSTINSKIY, A.F.; YAKUSHEVSKIY, B.M.

Thermochemistry of complex compounds. Report no.1: Crystallochemical electronegativeness of complex ions and the determination of heats of formation of hexammoniates of cobalt and nickel halides. Izv.Sekt. plat.i blag.met. no.27:152-159 '52. (MLRA 7:5)

1. Moskovskiy khimiko-tekhnologicheskoy institut im. D.I.Mendeleeva.
2. Institut obshchey i neorganicheskoy khimii im. N.S.Kurnakova Akademii nauk SSSR, Moscow. (Compounds, Complex) (Cobalt) (Nickel) (Crystallochemistry)

YAKUSHEVSKIY, B.M.

Entropies, heats of hydration, and volumes of ions in aqueous solutions in relation to their electrostatic characteristics. A. P. Kapustin, S. I. Drakin, and B. M. Yakushevskii (D. I. Mendeleev Chem.-Technol. Inst. Moscow). *Zh. Fiz. Khim.* 27, 435 (1953), 11 C 1 43, 1211s. — The radii, abs. entropies (S), abs. heats of hydration, and apparent vols. of the anions F , Cl , Br , I and S , as well as the univalent cations H , Li , Na , K , Rb , Cs , Ag , Cu , Tl , the bivalent cations Be , Mg , Ca , Sr , Ba , Zn , Cd , Hg , Pb , Co , Ni , Fe , Mn , and the trivalent cations Gd , Fe , and Al were calcd. from crystallochem. data. Results are tabulated and graphed. The value of S for all the given ions is expressed by the equation $S = (A/\sqrt{e})x + B$, where $x = e^2/2r$, e is the ionic charge, r is the crystal radius of the ion, and A and B are empirical consts. J. W. Loweberg, Jr.

USSR/Chemistry - Beryllium Salts, Cobalt Salts Apr 53

"An Adiabatic Calorimeter for Determining the Heat Capacities of Solutions. Investigation of Salts of Co^{++} , Ni^{++} , Cu^{++} , Be^{++} , and Ag^{+} ," A. F. Kapustinskiy, B. M. Yakushevskiy, S. I. Drakin, Moscow Chem-Technol Inst im D. I. Mendeleev

Zhur Fiz Khim, Vol 27, No 4, pp 588-595

Designed an adiabatic calorimeter which permits detn of heat capacities of solns with a precision of $\pm 0.03\%$. Investigated exptlly the heat capacities of

270722

solns of CoCl_2 , NiCl_2 , BeSO_4 , and AgNO_3 in the concn range 0.5-2 mol salt per 1000 g of water. Confirmed that there is a linear dependence of apparent molar heat capacities on the square root of molar concn. Carried out extrapolation of data to infinite diln and found values of C_p^∞ for the salts mentioned.

270722

YAKUSHEVSKIY, B. M.

Heat capacity of ions in aqueous solutions in relation to their electrostatic characteristics. A. F. Kapustin, B. M. Yakushevskiy, and S. I. Drakla (D. Mendeleev Chem. Technol. Inst., Moscow) Zhur. Fiz. Khim. 73:8 1953. 1-37. 264 refs. The specific heat capacity of ions in aqueous solutions at various concentrations was measured at 10-40°C. using a rotating adiabatic calorimeter. The value of c for 10-40°C. concn. was 0.834 cal./g. degree. Exptl. data are tabulated. The extrapolated molar heat capacity (C) of CsI at infinite diln. is -31.8 ± 1 kcal./mol. degree. Values of C calcd. on the assumption that C for Cs ion is the same as C for I ion are tabulated for the cations Li, Na, K, Cs, Ag, Mg, Ca, Sr, Ba, Be, Co, Ni, Cu, Zn, and Mn and the anions Cl, Br, I, NO₃, and SO₄. C is also graphed as a function of the inverse "aq." ionic radius ($1/r_{aq}$). r_{aq} can be calcd. on the hypothesis that the C and I ions have the same radius in soln. The equation $C = -31.16/r_{aq}$ where z is the formal charge on the ion, is in accord with the data. J. W. Loweberg, Jr.

YAKUSHEVSKIY, B.M.

U S S R .

✓ Thermochemical properties of ions in aqueous solution.
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Chem. Technol. Inst., Moscow). *Zhur. Fiz. Khim.* 27,
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sion. The entropy of hydration (ΔS) of any monat. ion in
aq. soln. is related to its free energy of hydration (ΔF) ac-
cording to the equation $\Delta F/e = 2.67 \Delta S - 48$, where ΔS and
 $-\Delta F$ are expressed in entropy units/mole and kcal./mole,
resp., and e is the valence of the ion. J. W. L., Jr.

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